

# **Environmental Impact Analysis Process (EIAP)**

## **Part 2 Action Items**

### **Environmental Field Working Group**

CADD/GIS Technology Center Internet URL :

<http://tsc.wes.army.mil>

# 01.040 – Use of GIS to Simplify EIAP

**Scope:** Develop web and GIS based electronic checklist for Environmental Impact Analysis Process (EIAP). EIAP is method commonly used for ensuring that new construction projects are in compliance with National Environmental Policy Act (NEPA) legal requirements.

- Project Proposal originally submitted by Parrish Swearingen, Robins AFB, GA. Parrish now works for Tetra Tech EM, Inc.
- Project building on past/on-going work accomplished at Robins AFB and the Patuxent River Naval Air Station (PAX), Maryland.

– **Project Website:**

[http://tsc.wes.army.mil/contacts/groups/FWG/Environmental/envprojects/01.040/01\\_040.htm](http://tsc.wes.army.mil/contacts/groups/FWG/Environmental/envprojects/01.040/01_040.htm)



By Jim Weaver / courtesy USFWS

# 01.040 – Use of GIS to Simplify EIAP

**Project to develop:** (1) A web-based interactive EIAP checklist (i.e., checklist to ensure compliance with National Environmental Policy Act (NEPA), (2) link to Real Property Management (RPM) website, and (3) Data model and data standards content for incorporation into “transactional” FMSFIE Environmental Entity Set.

**Status:**

**Part 1 (Funded in FY01) -**

- Final detailed SOW completed on January 24, 2001.
- Contract awarded by Robins AFB to Tetra Tech, Inc., Atlanta, GA, in August 2001.
- Draft EIAP Web-Based Application and PAX/Robins NEPA Checklist Report completed in January 2002.
- Environmental FWG met with Tetra Tech, Inc. for project reviews on April 24-27, 2002 and June 4, 2002.
- Part 1 development completed in August 2002.

**Part 2 (Funded in FY02) –**

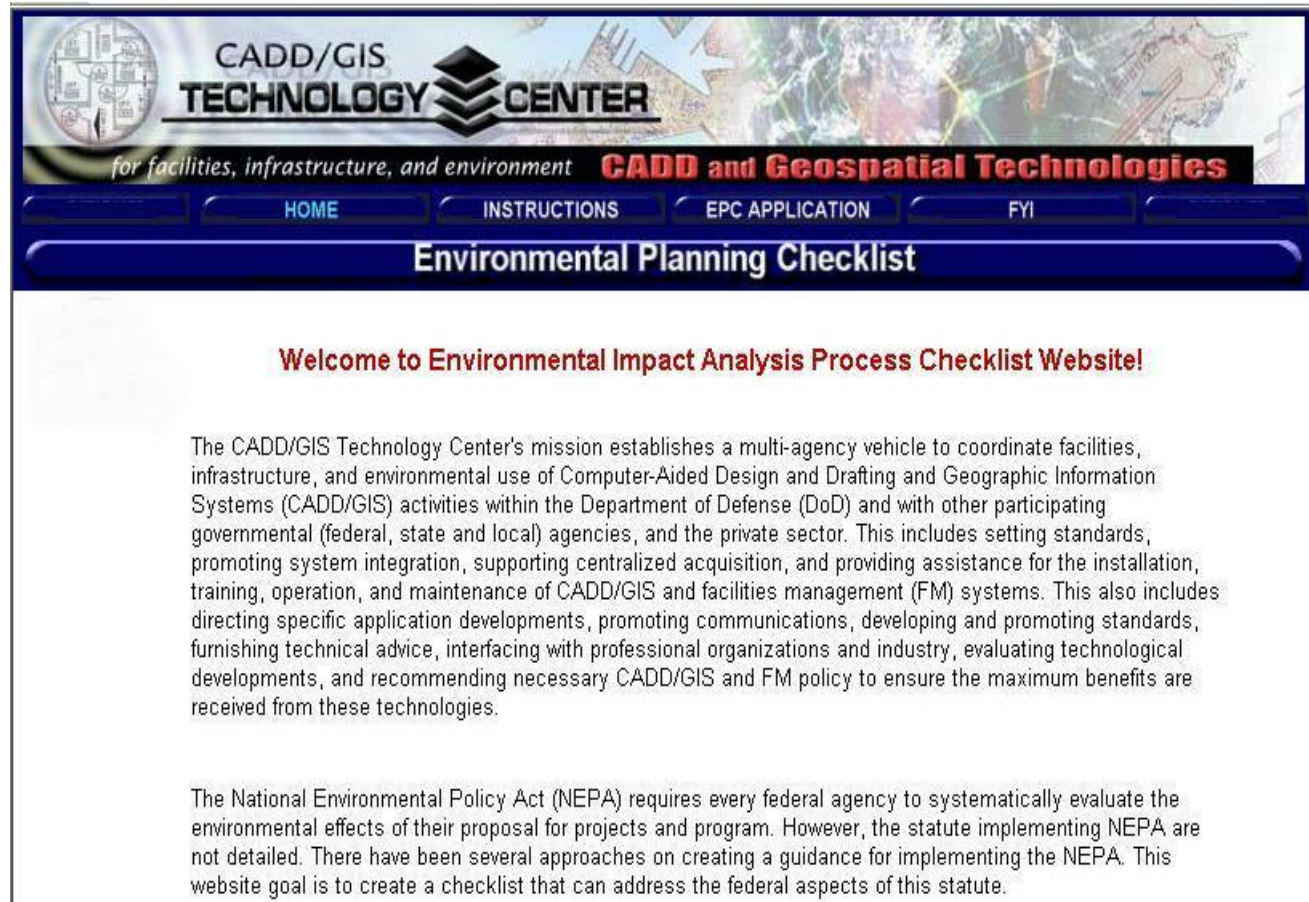
- Contract awarded to Tetra Tech, Inc. in September 2002.

**Part 3 (To Be Funded in FY03) –**

- Awaiting completion of Part 2 development and availability of FY03 funds.

# 01.040 – Use of GIS to Simplify EIAP

- Web-Based Application requires installation on server with Microsoft Active Server Page (ASP) software.
- Can be accessed via Internet using Internet Explorer or Netscape browser. Requires download and installation of free Macromedia Shockwave Player plug-in.



[http://tsc.wes.army.mil/contacts/groups/FWG/Environmental/envprojects/01.040/01\\_040.htm](http://tsc.wes.army.mil/contacts/groups/FWG/Environmental/envprojects/01.040/01_040.htm)

# Use of GIS to Simplify Environmental Impact Analysis Process (EIAP)

## Fiscal Year 2001 - 2002:

Project Scope & Status	Select Project No. 01.040 from Active Projects Website: <a href="http://tsc.wes.army.mil/projects/">http://tsc.wes.army.mil/projects/</a>			
Project Overview	<a href="#">.ppt digital format</a>	<a href="#">.pdf digital format</a>		
<a href="#">Detailed Scope of Work</a>	<a href="#">EIAP 12401.doc</a>	<a href="#">EIAP 120401.pdf</a>		
<b>Project Deliverables:</b>				
<a href="#">Draft Web Based EIAP Application</a>		Username & Password = SDSFIE		
Downloadable Version of Draft EIAP Application (August 2002)	<a href="#">Readme.txt</a>	<a href="#">Installation Instructions</a>	<a href="#">Eiap install.doc</a>	<a href="#">Eiap install.pdf</a>
Create folder on your computer entitled "eiap". Download <a href="#">eiap.zip</a> to that directory. Unzip, then "right-click" on each file & make sure "archive" is not checked under file properties.				
Create subfolder entitled "data" (e.g., eiap/data). Download <a href="#">eiap_data.zip</a> to that directory. Unzip, then "right-click" on "data" folder & make sure "archive" is not checked under properties.				
Create subfolder entitled "images" (e.g., eiap/images). Download <a href="#">eiap_images.zip</a> to that directory. Unzip, then "right-click" on "images" folder & make sure "archive" is not checked under properties.				
Create subfolder entitled "pdf" (e.g., eiap/pdf). Download <a href="#">eiap_pdf.zip</a> to that directory. Unzip, then "right-click" on "images" folder & make sure "archive" is not checked under properties.				
Report – Comparison of Robins AFB & Patuxent River Naval Air Station Environmental Review Checklist (July 2002)			<a href="#">pax robins compare.pdf</a>	
Environmental Review Checklist Database (Microsoft Access) (February 2002)			<a href="#">Ecl_model.zip</a>	



# Use of GIS to Simplify Environmental Impact Analysis Process (EIAP)

## Part 2 Action Items: *Items denoted in red are underway*

1. Prepare “EIAP Instructions” paper (Word 2000) to support: (a) Installation of NMCI compliant EIAP Application on web server, (b) Utilization and maintenance of EIAP Application, and (c) Deployment of EIAP application.

Deferred “Installation of NMCI compliant EIAP Application on web server” to to Part 3 (FY03 Funds).

Tetra Tech Comment – Will be putting together a user manual. Completion will be done when all changes to the Version 2 are complete. (Lead – Tracy Proud)

2. Change colors of codes (nothing, yellow and red).

Tetra Tech Comment – Color changes will be made to the introduction screen as well as the application. No color meaning section complete, yellow meaning section partially complete, and the red blocks meaning section is not complete. (Lead – Chris Martin)

3. Put “yes/no/don’t know” in “background”.

Tetra Tech Comment – Need further clarification. (Lead – Chris Martin)

# Use of GIS to Simplify Environmental Impact Analysis Process (EIAP)

## Part 2 Action Items (Cont.): *Items denoted in red are underway*

4. Executable back button to look at previous questions.

Tetra Tech Comment – Back button will be added to allow for one step back only. Any further would disrupt NEPA decision tree logic. (Lead – Chris Martin)

5. Establish suggested SDSFIE compliant base map entity types for all Checklist questions (I thought the perspective as the CADD/GIS Technology Center here was to suggest the base map entity types that would be useful for a question and then each installation could choose which ones to create/use from that list. As opposed to suggesting the minimum base map entity types, having each installation do some homework and possibly adding to the list).

Tetra Tech Comment – Minimum Entity Type for Base map, as well Entity Type for each corresponding question will be posted on each question on the right portion of the input screen. This list will be based on input from the last EFWG meeting. (Lead – Tracy Proud)

# Use of GIS to Simplify Environmental Impact Analysis Process (EIAP)

## Part 2 Action Items (Cont.): *Items denoted in red are underway*

6. Summary bullet in front of answer (message). I'm not sure what this is.

Tetra Tech Comment – Need further clarification from the EFWG (Lead – Tracy Proud).

7. Password protect administrator tools.

Tetra Tech Comment – All Administrator Tools components might be better suited to an ASP version. (Lead – Chris Martin)

8. **Sections should have intuitive names.**

Tetra Tech Comment – Each section will follow the 4 pillars of Environmental: Restoration, Conservation, Compliance, and Pollution Prevention. (Lead – Tracy Martin)

9. **Add comments field to the questions and the reports.**

Tetra Tech Comment – A comment field will be added in the input screen. The location will be below the Yes/No/Don't Know" buttons. These comments will then be presented in the summary report. (Lead – Chris Martin)



# Use of GIS to Simplify Environmental Impact Analysis Process (EIAP)

## Part 2 Action Items (Cont.): *Items denoted in red are underway*

10. Establish automated tracking number (Use Work Item/Number) and the ability of an installation to link to their current Work Item/Numbering system.

Tetra Tech Comment – This can be done however it would be better suited to an ASP version.  
(Lead – Chris Martin)

11. Break down summary reports to include comments from questions and comments concerning the report.

Tetra Tech Comment – A comment field will be added in the input screen. The location will be below the “Yes/No/Don’t Know” buttons. These comments will then be presented in the summary report. (Lead – Chris Martin)

12. Fit to full screen.

Tetra Tech Comment – Will have to be done in the ASP version. (Lead – Chris Martin)

# Use of GIS to Simplify Environmental Impact Analysis Process (EIAP)

## Part 2 Action Items (Cont.): *Items denoted in red are underway*

### 13. Incorporate Search Tool.

Tetra Tech Comment – What search capabilities are requested? Any heavy search engine will have to be done in the ASP version. (Lead – Chris Martin)

### 14. Document rights/privileges of users/administrators.

Tetra Tech Comment – Will be putting together a user manual. Completion will be done when all changes to the Version 2 are complete. (Lead – Tracy Proud)

### 15. Establish “Save as” option that allows the environmental review for one project to be copied over to another project number.

Tetra Tech Comment – Will be completed. (Lead – Chris Martin)

### 16. Edit capability within summary documentation.

Tetra Tech Comment – Because of the complex logic behind each question it is not practical to edit during the summary table. This can only be done through the existing edit button located on the summary page. (Lead – Chris Martin)

# Use of GIS to Simplify Environmental Impact Analysis Process (EIAP)

## Part 2 Action Items (Cont.): *Items denoted in red are underway*

17. Establish links to appropriate Federal regulations at CADD/GIS Technology Center's Federal Real Property Management Regulations (RPM) website -

<http://tsc.wes.army.mil/rpm/>

Tetra Tech Comment – Prior to any links being made further clarification will have to be given as to what and where the links will be made. (Lead – Tracy Proud)

18. Update content and Appendix C of “Comparison of Robins AFB & Patuxent River Naval Air Station Environmental Review Checklist” report, incorporating comments received from Environmental FWG and PAX during FY02 and the updated questions to date.

Tetra Tech Comment – This document will be made final and will include comments received from the EFWG meeting as well as the new checklist questions received from PAX during FY02. (Lead – Tracy Proud)

# Use of GIS to Simplify Environmental Impact Analysis Process (EIAP)

## Part 2 Action Items (Cont.): *Items denoted in red are underway*

19. Provide information concerning how to use the software, connect to a GIS, and the base map entity types defined as part of the HELP file, and “EIAP Instructions” paper.

Tetra Tech Comment – Will be putting together a user manual. Completion will be done when all changes to the Version 2 are complete. (Lead – Tracy Proud)

20. Prepare draft logical data model for incorporation of EIAP decision tree data into transactional Facility Management Standard (FMSFIE).

Tetra Tech Comment – Will be obtaining the FMSFIE data model from the website to incorporate EIAP into data model. (Lead – Tracy Proud)

21. Design EIAP Application to record the EIAP decision tree data in a Microsoft Access (2000) database. Is this what we really want or should we leave it open for the contractor to determine the best database that is NMCI compliant?

Tetra Tech Comment – ?????????.

# Use of GIS to Simplify Environmental Impact Analysis Process (EIAP)

## Part 2 Action Items (Cont.): *Items denoted in red are underway*

22. Permit the User to be able to move from one section to another without being forced to answer all of the questions sequentially. Currently, all questions in each section have to be answered before being able to go to the next section.

Tetra Tech Comment – Will be completed and put on Version 2. (Lead – Chris Martin)

23. Change wording on website and in application to “third” person, rather than first person.

Tetra Tech Comment – Will be completed. (Lead – Tracy Proud)

24. If there are no action items, the user should simply move forward (i.e. see the next question) rather than have a statement saying “x,y,z” is not required and then requiring the user to click on this statement in order to move forward.

Tetra Tech Comment – If you answer “No”, then no “Note:” will appear and you will move to the next question. This will be completed. (Lead – Chris Martin)

# Use of GIS to Simplify Environmental Impact Analysis Process (EIAP)

## Part 2 Action Items (Cont.): *Items denoted in red are underway*

25. Update EIAP Questions to be consistent with the updated PAX Questions (POC - Lasandra Teeters).

Tetra Tech Comment – All questions have been QC'd by the EFWG during the Atlanta meeting and those changes will be incorporated into Version 2. The updated PAX question will be reviewed and cross referenced to see if any additional changes should be made, if changes are required they will be approved by the EFWG prior to incorporation into Version 2.

26. With the new NMCI contract, the Navy and Marine Corps will not be able to download and install the Shockwave plug-in. Also, Microsoft ASP may not be used. Provide brief discussion/recommendations paper concerning the provision of a platform independent NMCI compliant web-based EIAP application for Part 3 development (to be funded in FY03).

Tetra Tech Comment – A recommendation letter will be drafted for the EFWG which will include migration strategies for Version 3. Tetra Tech needs input on what platform can be utilized prior to setting a completion date.



# Use of GIS to Simplify Environmental Impact Analysis Process (EIAP)

## Part 2 Action Items (Cont.): *Items denoted in red are underway*

27. Additional considerations:

- a. The government will own the code. Contractor will deliver CD containing all source code.
- b. The final software should be easily editable by government personnel (i.e. non-technical personnel via a module). The final software must have the capability to:
  - i. Add/Delete/Edit sections, section names, and modify section order.
  - ii. Add/Delete/Edit questions and modify question order.

# QUESTIONS?

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CADD GIS Technology Center Internet URL :  
<http://tsc.wes.army.mil>

# 01.040 – Use of GIS to Simplify EIAP

EPC Help - Microsoft Internet Explorer

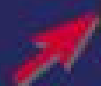
## EIAP Checklist - HELP

**Step 1: ENTER**  
**Step 2: LOGIN**  
**Step 3: SESSION**  
    New Session  
    Existing Session  
**Step 4: PROJECT INFO**  
    New Session  
    Existing Session  
**Step 5: SECTIONS**  
**Step 6: QUESTIONS**  
**Step 7: REVIEW/EDIT**  
**Step 8: END**

Login with your user name **(1)** and password **(2)**. (If you have not yet been granted access to the checklist, click on the e-mail link **(3)** provided at the bottom.) Then click on "Log in" to proceed **(4)**.

**User name:**  **1**

**Password:**  **2**



  **4**

**3**

If you are unable to access the password, please contact: [joe.lahnke@ttami.com](mailto:joe.lahnke@ttami.com)

back next

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**Environmental Planning Checklist**


**Environmental Planning Checklist**

This is the starting point for evaluating proposed actions for environmental assessment compliance. To evaluate your project, you will navigate through a matrix of questions in 27 sections. The matrix may require you to contact a point of contact within your division in order to complete the evaluation, so a complete evaluation may take some time. Please fill in the information below.


To:	<input type="text"/>	Proponent:	<input type="text"/>	Telephone No.:	<input type="text"/>
Title of Proposed Action:	<input type="text"/>				
Purpose and need for action:	<input type="text"/>				
Description of Proposed Action and Alternatives:	<input type="text"/>				
Proponent Approval:	<input type="text"/>	Date Approved:	<input type="text"/>		

UpdateChecklist

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**Environmental Planning Checklist**

### Section




1	Soil Disturbance
2	Storm Water and Wastewater
3	Critical Area and Coastal Zone
4	Historic Preservation
5	Capital Improvements
6	Endangered Species
7	Land Use
8	Tree Clearing
9	Bird/Aircraft Strikes
10	Deer Auto Collision
11	Pesticides
12	Solid Waste and Recycling
13	Hazardous Waste and Materials
14	Polychlorinated Biphenyls (PCB)
15	Air Quality (Emissions)
16	Drinking Water
17	Installation Restoration
18	Petroleum Systems
19	Oil Control
20	Groundwater Monitoring Wells
21	Asbestos
22	Lead
23	Socioeconomics
24	Traffic
25	Noise
26	Aesthetics
27	Environmental Justice


### Environmental Planning Checklist

< Select a section from the list at left.

You may begin in any of the available 27 sections.


As you proceed through the checklist, you will see the following symbols indicating your progress in each section:

Section not yet visited	-	
Section partially completed	-	
Section completed	-	

 < When you see this icon, place you mouse over the icon to see special instructions.



# 01.040 – Use of GIS to Simplify EIAP


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## Environmental Planning Checklist

Section	Question	Entity Types
<ul style="list-style-type: none"> <li>1 Soil Disturbance</li> <li>2 Storm Water and Wastewater</li> <li>3 Critical Area and Coastal Zone</li> <li>4 Historic Preservation</li> <li>5 Capital Improvements</li> <li>6 <b>Endangered Species</b></li> <li>7 Land Use</li> <li>8 Tree Clearing</li> <li>9 Bird/Aircraft Strikes</li> <li>10 Deer Auto Collision</li> <li>11 Pesticides</li> <li>12 Solid Waste and Recycling</li> <li>13 Hazardous Waste and Materials</li> <li>14 Polychlorinated Biphenyls (PCB)</li> <li>15 Air Quality (Emissions)</li> <li>16 Drinking Water</li> <li>17 Installation Restoration</li> <li>18 Petroleum Systems</li> <li>19 Oil Control</li> <li>20 Groundwater Monitoring Wells</li> <li>21 Asbestos</li> <li>22 Lead</li> <li>23 Socioeconomics</li> <li>24 Traffic</li> <li>25 Noise</li> <li>26 Aesthetics</li> <li>27 Environmental Justice</li> </ul>	<p>33. Does the proposed project involve any actions located within 1,000 feet of any Federal Candidate, State watchlist, or other species or habitat enjoying a special designation assigned by Federal or state agencies?</p> <p> <input type="button" value="Yes"/> <input type="button" value="No"/> <input type="button" value="Don't Know"/> </p> <p> <a href="#">Review/Edit Answers</a> <a href="#">End Session</a> </p>	<p><b>Question specific entity types</b></p> <p>           flora_special_plant_site            flora_replanting_site            fauna_special_habitat_site            shoreline_buffer_critical_area            preserve_area         </p> <p><b>Base map entity types</b></p> <p>           installation_area,            surface_water_course_centerline,            road_area, airfield_surface_site,            vehicle_parking_area,            vehicle_driveway_area,            structure_existing_site, shoreline         </p>